

PAT-NO: JP401191233A

DOCUMENT-IDENTIFIER: **JP 01191233 A**

TITLE: AUTOMATIC PROGRAM GENERATING SYSTEM

PUBN-DATE: August 1, 1989

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APPL-NO: JP63014457

APPL-DATE: January 27, 1988

INT-CL (IPC): G06F009/06, G06F009/44

ABSTRACT:

PURPOSE: To prevent an error from going in at the time of maintenance and extension work by registering in advance a model (parts pattern) of a program, bringing a macro part in the parts pattern to replacement (macro expansion) by an actual processing object name, a data type, etc., and deforming it to the program.

CONSTITUTION: By the title system, a parts pattern in which data (processing object information) and a procedure are related to each other can be registered, and also, in order to generate automatically a program for handling the data of a complicated structure, a program for handling the data of a more

complicated structure is synthesized from a program for handling the data of a simple structure, based on a type constituent parts pattern. By forming a pair by the processing object information and a procedure thereto, and limiting an operation to the processing object information, for allowing such errors as the processing object information is rewritten in an unexpected place, a reference and updating are executed by an unappropriate method, to go in at the time of maintenance and extension is decreased.

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